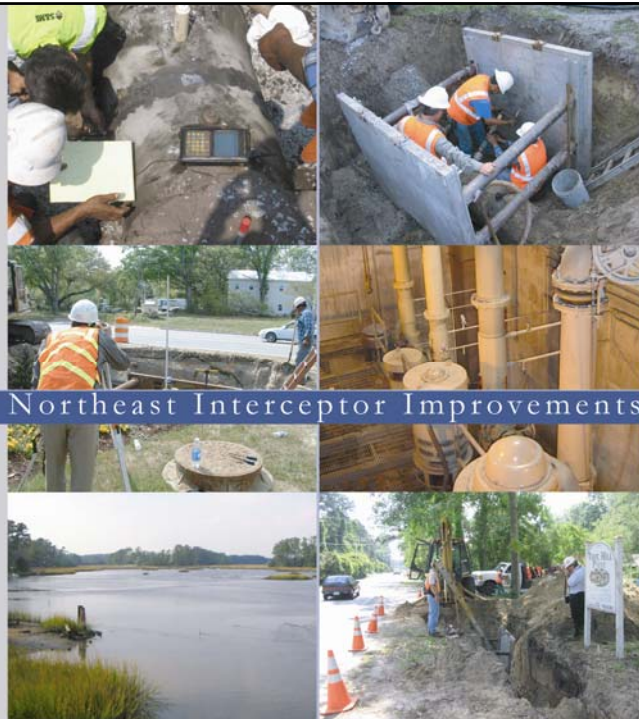


Public Meeting
June 12, 2007



Northeast Interceptor Improvements



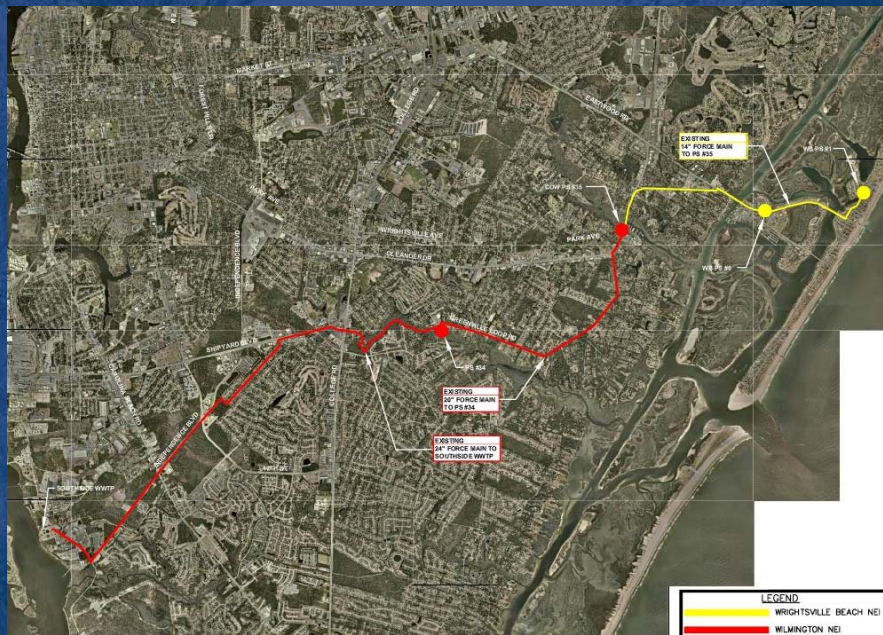
Prepared by:
 Kimley-Horn
and Associates, Inc.
 Hatchell
and Associates, Inc.

Presentation Agenda

- Description of Existing System
- Study Overview
- Recommended Improvements
- Near Term Improvements
 - Greenville Loop Road
 - Hewlett's Creek Relocation
- What to expect - next few months



NORTHEAST INTERCEPTOR SYSTEM



Northeast Interceptor Improvements

NEI Segment 1 Components

- WB Pump Station No. 1 (largest)
- WB Pump Station No. 5
- Approximately 17,500 LF 14" force main
- Segment 1 FM is 31% of Total NEI FM



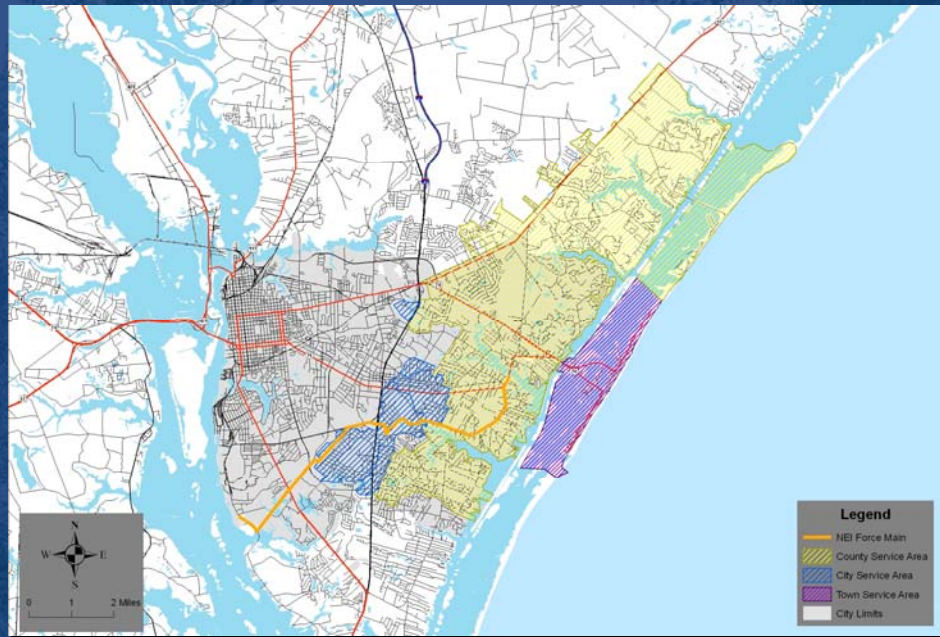


Northeast Interceptor Improvements

NEI Segment 2 Components

- City Pump Stations 34 and 35
- Largest and third largest pump stations
- Approx. 16,500 LF 20" force main
- Approx. 32,500 LF 24" force main

NEI SERVICE AREA



Northeast Interceptor Improvements

Study Objectives

1. Evaluate the capacity, condition, and reliability
2. Propose improvements that will provide:
 - Capacity for future demands
 - Operational flexibility / event mgmt.
 - A high level of reliability
3. Develop a schedule for improvements



Study Approach

1. Pipeline Condition Assessment (DIRP)
2. Operational Evaluation
3. Capacity Analysis
4. Criticality Assessment
5. Recommend Reliability Improvements



4 Phases of Capital Improvements

1. DIRP Improvements (4-6 months)
2. Interim Improvements (18 months)
3. System Expansion (3 years)
4. Additional Rehabilitation (3½ years)

Projected Cost: \$34.0 - \$41.8 Million
(Depending on the alternative selected)



DIRP Improvements (4-6 months)

- Rehabilitate 2,000 LF of 20" FM
- Replace all air release valves (ARVs)
- Replace repair ARV vaults
- Rehabilitate/replace 450 LF 20" gravity sewer
- Replace junction manholes @ PS 34 & 35

Projected Cost: \$1.9 M



NEI Interim Improvements (18 mo.)

- PS 34 & 35 improvements (electrical)
- Interim PS capacity improvements
- 24" force main relocation (Hewlett's Creek)
- Odor & corrosion control system modifications
- Infiltration and inflow reduction program
- PS 34 generator

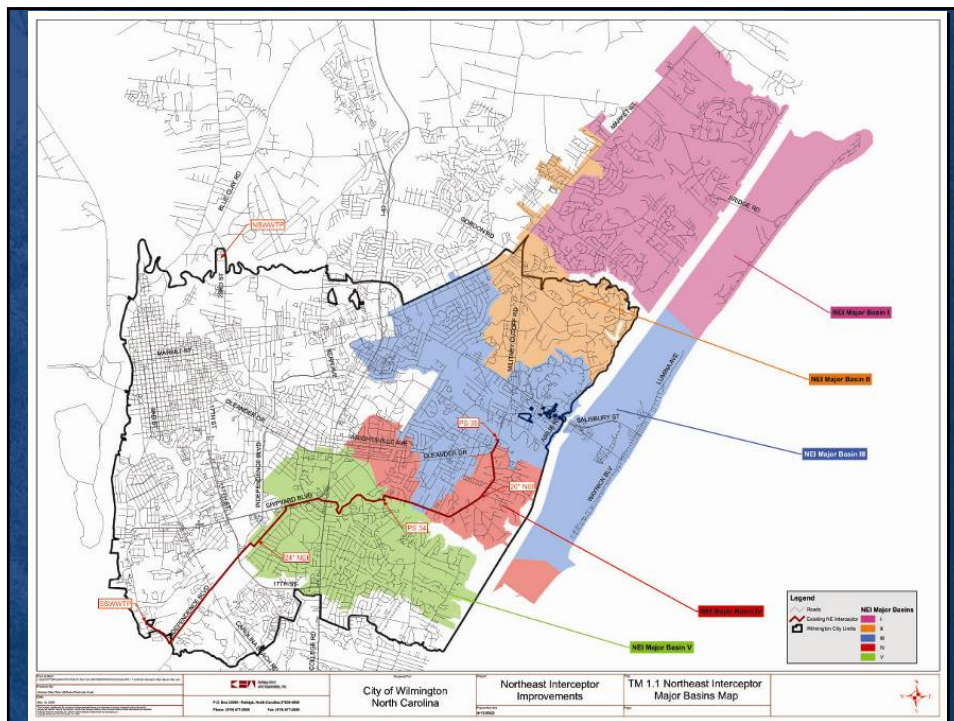
Projected Cost: \$ 8.7 M



NEI Expansion (3 years)

- 24"/30" Parallel force main
- Pump Station 35 expansion
- Pump Station 34 improvements
- NHC Pump Station 77 improvements

Projected Cost: \$20.2 - \$27.7 M



Greenville Loop Road Work (DIRP)

- Rehabilitate 2,000 LF of 20" FM
- Replace all air release valves (ARVs)
- Replace repair ARV vaults
- Rehabilitate/replace 450 LF 20" gravity sewer
- Replace junction manhole @ PS 34
- Schedule:

Bid/Award	<i>May 07 – June 07</i>
Construction	<i>July 07 – Sept 07</i>



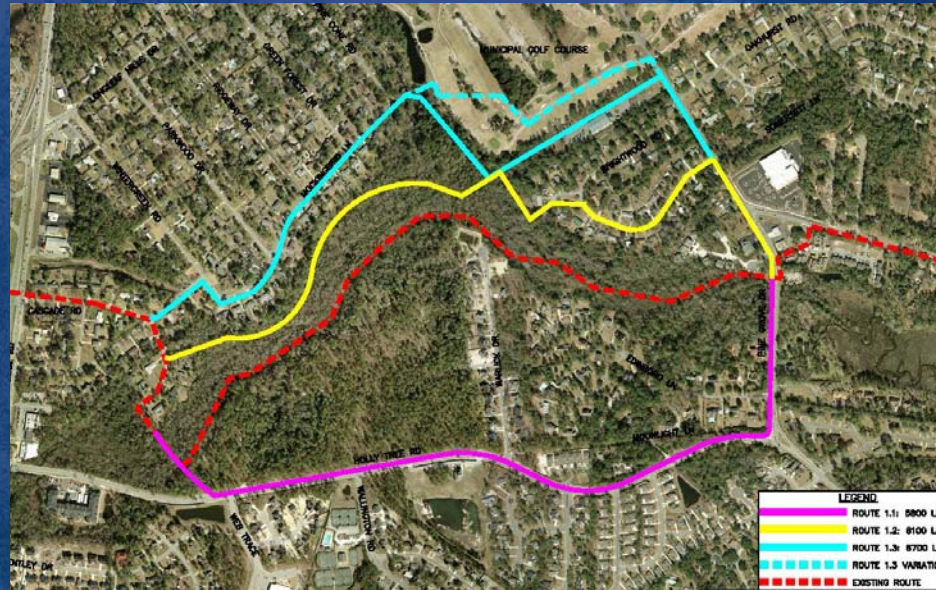
Hewlett's Creek Relocation

- Relocation of 6,000 LF of 24" Pipe
- Projected Cost: \$2.0 M
- Schedule:

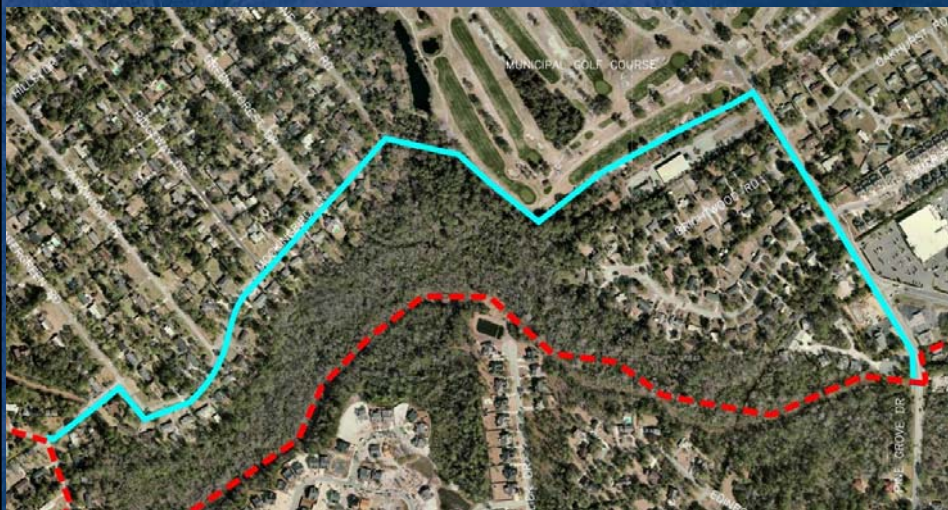
Design / Perm.	<i>Dec. 06 – June 07</i>
Bid	<i>June 07 – Aug. 07</i>
Construction	<i>Sept. 07 – Jan. 08</i>



Hewlett's Creek Relocation



Hewlett's Creek Relocation



Odor and Corrosion Control Improvements

- Chemical testing in progress
- Requires field adjustment
- Periodic odors are anticipated
- Schedule:

NEI Field Testing *Mar. 07 – Oct. 07*
Eval city-wide system *Nov. 07 – Mar. 08*
Design / Const. *April 08 – Dec. 08*



Efforts to expedite projects

- Off-the-shelf components
- Multiple construction crews / shortened construction periods
- Minimize easement acquisition
 - Utilize City/Government property
 - Utilize Progress Energy & DOT R/Ws



Work areas for the next few months

- Oleander Drive
- Greenville Loop Road
- Tidal Oaks/Oakmont Subdivision
- Independence Blvd. / River Road
- Pine Grove Drive
- Municipal Golf Course
- Mockingbird Lane / Cascade Road



Open Excavations



Air Release Valve Vault Retrofits



Pipeline Liner Installation



Installation of New Force Main



Northeast Interceptor Improvements

The next few months – what to expect

- traffic impacts
- disturbance / restoration
- property access
- trash / recycling collection
- US mail



Breakout Discussion Groups

- Greenville Loop Rehabilitation
- Hewlett's Creek Relocation
- Other NEI Questions



Thank you for coming!

*** Please leave your Comment Form ***
at the registration table.

Key questions and answers will be
posted on the city's website at
www.wilmingtonnc.gov.

